

AOE-6 MATERIAL CHECKS

GENERAL CHECKS

DESCRIPTION	LOA	IA
MLOC/EOSS		
CLEANLINESS/PRESERVATION/STOWAGE BILGE & MACH FOUNDATION/SPACE PRESERVATION SPACE CLEANLINESS, DECKPLATES, HANDRAILS, LAGGING, WATERTIGHT & OTHER DC FITTINGS/CLOSURES, SPACE LIGHTING, SPACE STOWAGE, FLAMMABLES IN SPACE; OIL FREE BILGES. SECURE FOR SEA		
REPAIR PARTS STORED IN SPACES LABELED, PIPING SYSTEMS STENCILED / RELIEF VALVES LABELED WITH DATA GAGES WITHIN CALIBRATION DATES		
GAGE CALIBRATION / INSTRUMENTATION: GAGE ID AND CAL /SWBD METER OPER AND CAL / ALARMS / INDICATOR LIGHTS		
OBSERVE VALVE MAINTENANCE		
TEST OPERATE LESLIE VALVES		

DC EQUIPMENT

INSPECT CO2, PKP, FOR PMS WITHIN PERIODICITY		
INSPECT FIRE STATIONS FOR COMPLETENESS		
TEST EMERGENCY LIGHTING		
TEST AFFF STATIONS NR1 NR2 NR3		
INSPECT AFFF TANK LEVEL, GAGE CALIBRATION, LEAKAGE		
INSPECT QUANTAB/REFRACTOMETER TESTS NR1 NR2 NR3		
CHECK AFFF STATION ALIGNMENT NR1 NR2 NR3		
ACTUATION STATIONS / PIPING & SPRINKLER HEADS / HOSE HYDRO DATE / FITTINGS / VALVE ALIGNMENT / HOSE REEL / ANTI-CRIMPING STRAP / NOZZLES		
VENTILATION TO INCLUDE: CONTROLLER INDICATOR LIGHT/HIGH AND LOW SPEED OPERATION, REMOTE START/STOP		
TEST FIRE PUMPS' COUPLING GUARD, REMOTE START, STOP, CHECK VLV, MECHANICAL SEAL, PRESSURE		
TEST OPERATE REMOTE OPERATED VALVES		
TEST OPERATE MAIN DRAINAGE SYSTEM NR3 NR5 NR6 NR7 NR8		
INSPECT EEBDs QUANTITY / STOWAGE / DISTRIBUTION / TAMPER SEAL / MOD		
INSPECT JOINTER DOOR / ESCAPE TRUNKS		
INSPECT PHOTO-LUMINESCENT PAINT		

HALON

INSPECT HALON CO2 ACTUATION BOTTLE PMS, FLEX HOSE TEST TAGS, REMOTE ACTUATION STATIONS, PIPING/NOZZLE INTEGRITY ACTUATION STATIONS PIPING / SPRINKLER HEADS HOSE HYDRO DATE	A M R	M M R	M M R	1 S S E D G	2 S S E D G	3 S S E D G	4 S S E D G	5 S S E D G	1 A G T M	1 B G T M	2 A G T M	2 B G T M
OPERATIONAL TEST (PRIMARY) - CO2 ACTUATION												
OPERATIONAL TEST (SECONDARY) - CO2 ACTUATION												
PRESSURE SWITCH TEST (VENTS, ALARMS-VIS/AUD)												
HALON LEVEL CALI STICKER/BOTTLE PRESS												

O = OBSERVE

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CCS

EOOW CONSOLE/LOGGING UNIT

DESCRIPTION	LOA	IA
VERIFY ALIGNMENT		
SHIFT CONSOLE TO UPS		
CONSOLE SELF TEST		

PACC CHECKS

DESCRIPTION	LOA	IA
VERIFY PACC ALIGNMENT/INSPECT CONSOLE		
TEST ALARMS AND STATUS INDICATORS		
SHIFT PACC TO UPS		
TEST MOTOR OPERATED FUEL SVC VLVS		
TEST ENCLOSURE FO VLVS		
OPERATE LO SVC PUMPS, REMOTE OPERATION	MMR 1	MMR 2
OPERATE FO SVC PUMPS, REMOTE OPERATION	MMR 1	MMR 2
OPERATE SW SVC PUMPS, REMOTE OPERATION	1	2
TEST GTM COOLING SYSTEMS	3	4
PACC SELF TEST		
OPERATE CSC PUMPS		
TEST EOT AND ORDER DIFFERENTIAL ALARM		
E-STOP FO XFER PUMP AND PURIFIER	MMR 1	MMR 2
DEMONSTRATE HP START OF GTM	1A	1B
	2A	2B

EPCC CHECKS

TEST ALARMS AND STATUS INDICATORS		
SHIFT TO UPS		
CLEANLINESS OF EPCC FANS / FILTERS / CABINETS		
EPCC SELF TEST		
TEST GROUND DETECTION		
DEAD BUS PICK-UP	1	2
APD (GTPA) LOAD AND PARALLEL EACH	3	4
REVERSE POWER RELAY	5	5

DC CONSOLE CHECKS

TEST ALARMS AND STATUS INDICATORS		
VERIFY CONSOLE ALIGNMENT		
CONSOLE SELF TEST		
TEST VENTILATION REMOTE OPERATION		
TEST FIREMAIN VALVE REMOTE OPERATION		
FIRE PUMP START/STOP	1	2
	3	4
	5	6
	7	8

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FUEL OIL SERVICE SYSTEM

DESCRIPTION	MMR1	MMR2	LOA	IA
TEST FO TANK QUICK CLOSING VALVES				
TEST FO COALESCER AND PREFILTER DELTA "P" ALARM				
TEST FO FILTER SEPARATOR DELTA "P" ALARM				
TEST FO PUMP LOGICS				

SHAFT CONTROL UNIT (SCU)

VERIFY SCU ALIGNMENT				
TEST ALARMS AND INDICATORS				
SHIFT SCU AND DATA ACQUISITION UNIT (DAU) TO UPS				
TEST POWER SUPPLY OUTPUT VOLTAGE				
TEST MOTOR OPERATED FO VALVES				
TEST MODULE FO VALVES				
TEST RCC PUMPS FROM SCU				

SSEDGs

TEST UV SENSORS AND HEAT DETECTORS	1	2	3	4	5		
TEST BLOW IN DOORS	1	2	3	4	5		
TEST FO QUICK TRIP VALVES	1	2	3	4	5		
TEST REMOTE SHUTDOWN	1	2	3	4	5		
TEST MAINTENANCE SWITCH (CRANKING LOCK OUT)	1	2	3	4	5		
TEST PRE-LUBE FAILURE	1	2	3	4	5		
TEST ENGINE LO SHUTDOWN ALARMS	1	2	3	4	5		
TEST LOCAL IC ALARM PANEL	1	2	3	4	5		
TEST JACKET WATER HIGH TEMP ALARM	1	2	3	4	5		
INSPECT ENGINE DIP STICK	1	2	3	4	5		
TEST FO SVC TANK SUCTION VLVS	1	2	3	4	5		
TEST EMERGENCY COOLING	1	2	3	4	5		

AUXILIARY BOILERS

TEST AUX BOILER LOCAL OPERATING PANEL LAMPS/ ALARMS	NR 1	NR 2		
TEST STEAM STOP OPERATION	NR 1	NR 2		
TEST BOILER SAFETY SHUTDOWN DEVICES	NR 1	NR 2		
TEST SOOT BLOWER OPERATING PRESSURE	NR 1	NR 2		
INSPECT BOILER FEED PUMP	NR 1	NR 2		
INSPECT FUEL BURNER BARREL	NR 1	NR 2		
INSPECT PERISCOPE VISIBILITY	NR 1	NR 2		
INSPECT BOILER SAFETY VALVES	NR 1	NR 2		
INSPECT GAGE GLASS, VISIBILITY, CO VALVE OPS AND LVL MKS	NR 1	NR 2		
INSPECT FURNACE INSPECTION PORTS	NR 1	NR 2		
INSPECT BLOW DOWN PIPING	NR 1	NR 2		

SWITCH BOARDS

INSPECT SWBD BATTERIES: CONNECTIONS, CASING CRACKS, PROPER CHARGE, MOUNTING BRACKET, CLEAN AND DRY, VENTED CAPS IN PLACE, ADEQUATE EXHAUST VENTILATION	1	2	3	4	5		
INSPECT SWBDs: INTEGRITY, GROUND TEST, BREAKERS INOPERATIVE, GLOVES / BOOTS / FACE SHIELD / SHORTING PROBE ON STATION, POWER/BREAKER INDICATORS, BREAKERS AND FUSES PROPER SIZE	1	2	3	4	5		

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HP AIR SYSTEM

DESCRIPTION	NR 1	NR 2	NR 3	LOA	IA
TEST HPAC TEMP MONITOR	NR 1	NR 2	NR 3		
TEST HPAC LOAD/UNLOAD PRESSURES - AUTO START/STOP	NR 1	NR 2	NR 3		
TEST LOW LO SHUTDOWN	NR 1	NR 2	NR 3		
OBSERVE OPERATION: WITHIN PARAMETERS, LO SAMPLE CONNECTION, DIPSTICK MARKINGS, RELIEF VLVS, SYSTEM CONTAMINATION BY WATER, OIL AND SEDIMENT	NR 1	NR 2	NR 3		
OBSERVE HPAD OPERATION: WITHIN PARAMETERS, NOT ON BYPASS, NO ALARMS IN CUTOFF	NR 1	NR 2	NR 3		

LP AIR SYSTEM

TEST LPAC LOW LO SHUTDOWN	1	2	3		
TEST PRIORITY VALVE OPERATION	1	2	3		
OBSERVE LPAC OPERATION: WITHIN PARAMETERS, LEAD/LAG CONFIGURATION, RELIEF VLVS, LO SAMPLING CONN, DIPSTICK MARKING, LO CONTAMINATION	1	2	3		
SHIFT LPAC DUPLEX STRAINER	1	2	3		
OBSERVE LPAD OPERATION: WITHIN PARAMETERS, NOT IN BYPASS, ALARMS	1	2	3		

FO TRANSFER AND RECIRC SYSTEM

TEST FO PURIFIER	NR 1	NR 2		
INSPECT FO XFER SYSTEM WHILE IN OPERATION	MMR 1	MMR 2		

SEA WATER SERVICE SYSTEM

OBSERVE SWS PUMP OPERATION: WITHIN PARAMETERS, COUPLING MECH ALIGNMENT, REMOTE START/STOP FROM PACC, GROUNDING STRAPS AND SOUND ISO, MOTOR AND CONTROLLER WIRING, CHECK VLV OPERATION, PROPER ROTATION, GLAND/MECH SEAL LEAKAGE (SWPM)	NR 1	NR 2	NR 3	NR 4		
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FIRE PUMPS

OBSERVE FIRE PUMP OPERATION: WITHIN PARAMETERS, COUPLING MECH ALIGNMENT, REMOTE START/STOP FROM DCC, GROUNDING STRAPS AND SOUND ISO, MOTOR AND CONTROLLER WIRING, CHECK VLV OPERATION, PROPER ROTATION, GLAND/MECH SEAL LEAKAGE	AUX PMP RM (2)	JP5 (2)	MMR 1 (2)	MMR 2 (2)		
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LINE SHAFT BEARINGS (LSB) AND SHAFT SEALS

OBSERVE LSB TO INCLUDE: SUMP LEVEL, DIPSTICK MARKINGS, PHYSICAL SECURITY, SLINGER RING INSPECTIONS, LO SAMPLE CONNECTION, SEAL LEAKAGE, SPARE BRNG AVAILABILITY	1A	2A	2B		
TEST/INSPECT BULKHEAD SEAL	1	2			
TEST/INSPECT OPERATION OF STERN TUBE INFLATABLE SEAL	1	2			
VERIFY STERN TUBE COOLING	1	2			
TEST SHAFT SEAL LOW FLOW/LOW PRESSURE ALARM	1	2			

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LUBE OIL SERVICE SYSTEM

TEST LO FILTER SHIFTING INTERLOCK DEVICES	MMR 1	MMR 2		
TEST LO PUMP LOGICS	MMR 1	MMR 2		
TEST LO LOW PRESSURE ALARM	MMR 1	MMR 2		
TEST TURNING GEAR AND LOCKING DEVICE	MMR 1	MMR 2		
TEST LO STRAINER DELTA "P" ALARM	MMR 1	MMR 2		
OBSERVE LO COOLER OUTLET AND RRG BEARING TEMPS	MMR 1	MMR 2		
OBSERVE LO UNLOADER OPERATION	MMR 1	MMR 2		
OBSERVE LO PURIFIER OPERATION	MMR 1	MMR 2		
INSPECT LO SUMP LEVEL	MMR 1	MMR 2		
INSPECT OIL/WATER SEPARATOR (OWS)	MMR 1	MMR 2		

MAIN REDUCTION GEAR ASSEMBLY (RRG)

OBSERVE LO FLOW THROUGH ALL SIGHT FLOW INDICATORS	MMR 1	MMR 2		
OBSERVE BEARING TEMPERATURES	MMR 1	MMR 2		
OBSERVE FOR LO LEAKS AND OIL ACCUMULATION IN CASING CAVITIES	MMR 1	MMR 2		
OBSERVE VENT FOG PRECIPITATOR OPERATION	MMR 1	MMR 2		
OPERATE TURNING GEAR AND LOCK SHAFT (MRTG, LUSU)	MMR 1	MMR 2		
OBSERVE SECURITY LOCKS AND WIRE SEALS	MMR 1	MMR 2		
OBSERVE DEHUMIDIFIER OPERATION	MMR 1	MMR 2		

REVERSIBLE CONVERTER COUPLING (RCC)

TEST RCC STRAINER DELTA "P" ALARM	MMR 1	MMR 2		
TEST RCC VANE FILTER DELTA "P" ALARM	MMR 1	MMR 2		
TEST RCC LO PUMPS	MMR 1	MMR 2		
INSPECT RCC, RCC PUMPS & PIPING FOR LEAKS, INSPECT FLANGE SHIELDS	MMR 1	MMR 2		

PROPULSION GAS TURBINE MODULE CHECKS

DEMONSTRATE LM 2500 FIRE DETECTION/EXTINGUISHING SYSTEM, INCLUDING FLAME DETECT SYSTEM POWER CONTINUITY LOSS	1A	1B	2A	2B		
TEST LM 2500 PT OVER SPEED, SIGNAL LOSS, SPEED LIMITING AND TORQUE LIMIT	1A	1B	2A	2B		
TEST BLOW IN DOOR OPERATION	1A	1B	2A	2B		
CONDUCT GTMI	1A	1B	2A	2B		
INSPECT LOSCA	1A	1B	2A	2B		

ELECTRICAL SYSTEMS & EQUIPMENT

DESCRIPTION	LOA	CART
TEST ALL ABTs IN AUTO AND MANUAL MODE		
INSPECT MBTs TO INCLUDE: POWER AVAILABLE LIGHTS AND INTERLOCKS		
INSPECT ALARM PANELS TO INCLUDE: ALARMS IN CUT-OUT AND GROUNDS OR CKT FAILURE		
INSPECT SWITCHBOARDS, AND GROUP CONTROLLERS TO INCLUDE: RUBBER MATTING, GROUND TEST, NO MAJOR BREAKERS INOP, NO FUSES BLOWN, EOP/EOCC/ GLOVES BOOTS. FACE SHEILDS AND SHORTING PROBES ON STATION, SAFETY PLACARDS POSTED, BREAKER STATUS AND POWER AVAILABLE INDICATOR, PROPER SIZED FUSES AND BREAKERS, NO PANEL FASTENERS MISSING AND EMERGENCY LIGHTING IS OPERATIVE		
MOTOR/CONTROLLER CABLES SECURELY INSTALLED IN STUFFING TUBES		
ELECTRICAL SAFETY: PORTABLE TOOLS, EXTENSION CORDS, WET VACS ... ETC.		

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